

Submit 1 Copy To Appropriate District
Office

District I

1625 N. French Dr., Hobbs, NM 88240

District II

1301 W. Grand Ave., Artesia, NM 88210

District III

1000 Rio Brazos Rd., Aztec, NM 87410

District IV

1220 S. St. Francis Dr., Santa Fe, NM
87505

State of New Mexico
Energy, Minerals and Natural Resources

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-103

October 13, 2009

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)		WELL API NO. 30-015-40816
1. Type of Well: Oil Well ☒ Gas Well ☐ Other ☐		5. Indicate Type of Lease STATE ☒ FEE ☐
2. Name of Operator COG Operating LLC		6. State Oil & Gas Lease No.
3. Address of Operator 2208 W. Main Street, Artesia, NM 88210		7. Lease Name or Unit Agreement Name Diamondback 22State Com
4. Well Location Unit Letter <u>C</u> : <u>20</u> feet from the <u>North</u> line and <u>1393</u> feet from the <u>West</u> line Section <u>22</u> Township <u>26S</u> Range <u>28E</u> NMPM <u>Eddy</u> County		8. Well Number 4H
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 2993'		9. OGRID Number 229137
		10. Pool name or Wildcat Hay Hollow; Bone Spring

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐
PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐
DOWNHOLE COMMINGLE ☐

OTHER: BHL & MD Change
☒

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ P AND A ☐
CASING/CEMENT JOB ☐

OTHER: ☐

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

COG Operating LLC respectfully requests approval for the following BHL and MD change to the original APD.

BHL

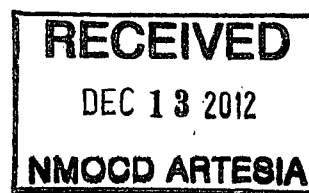
From: 330' FSL & 1493' FWL

To: 330' FSL & 1980' FWL

Measure Depth

From: 12,712'

To: 12,855'



Spud Date:

Rig Release Date:

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Mate Reyes TITLE: Regulatory Analyst DATE: 12/13/2012

Type or print name: Mayte Reyes E-mail address: mreyes1@conchoresources.com PHONE: (575) 748-6945

For State Use Only

APPROVED BY: T.L. Shepard TITLE: Geologist DATE: 12/13/2012

Conditions of Approval (if any):

DISTRICT I
1625 N. French Dr., Hobbs, NM 88240
Phone (575) 393-8161 Fax: (575) 393-0720

DISTRICT II
811 S. First St., Artesia, NM 88210
Phone (575) 748-1283 Fax: (575) 748-9720

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone (505) 384-6178 Fax: (505) 384-6170

DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised August 1, 2011

Submit one copy to appropriate
District Office

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

☒ AMENDED REPORT

API Number 30-015-40816	Pool Code 30215	Pool Name Hay Hollow; Bone Spring
Property Code 38527	Property Name DIAMONDBACK 22 STATE COM	Well Number 4H
OGRID No. 229137	Operator Name COG OPERATING LLC	Elevation 2993'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	22	26 S	28 E		20	NORTH	1393	WEST	EDDY

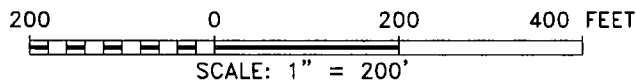
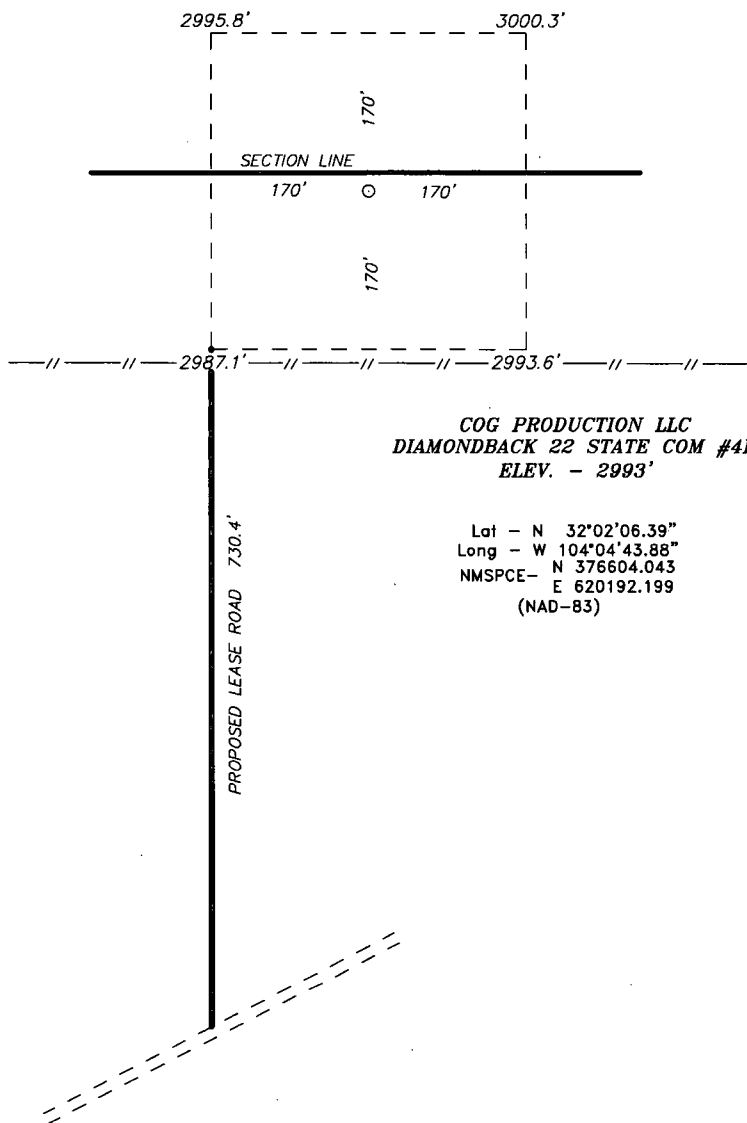
Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	22	26 S	28 E		330	SOUTH	1980	WEST	EDDY
Dedicated Acres 160	Joint or Infill	Consolidation Code	Order No.						

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

	SURFACE LOCATION Lat - N 32°02'06.39" Long - W 104°04'43.88" NMSPC- N 376604.043 E 620192.199 (NAD-83)	OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. Signature: <u>Melanie J. Barker</u> Date: <u>12/13/12</u> Printed Name: <u>Melanie J. Barker</u> Email Address: <u>mbarker@concho.com</u>
	PROPOSED BOTTOM HOLE LOCATION Lat - N 32°01'17.42" Long - W 104°04'36.96" NMSPC- N 371656.465 E 620800.030 (NAD-83)	SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. Date Surveyed: <u>12/13/12</u> Signature & Seal of Professional Surveyor: <u>[Signature]</u> Certificate No. Gary L. Jones 7977 BASIN SURVEYS 26949

SECTION 22, TOWNSHIP 26 SOUTH, RANGE 28 EAST, N.M.P.M.,
EDDY COUNTY, NEW MEXICO.



Directions to Location:

FROM MILE MARKER 4 OF HWY 285, GO SOUTH 0.2
MILES TO LEASE ROAD, ON LEASE ROAD GO WEST
0.9 MILES TO PIPELINE ROW AND ROAD, GO SOUTH
0.5 MILES TO LEASE ROAD ON LEASE ROAD GO
WEST 0.4 MILES TO PROPOSED LEASE ROAD.

BASIN SURVEYS P.O. BOX 1786-HOBBS, NEW MEXICO

W.O. Number: 26949 Drawn By: J. SMALL

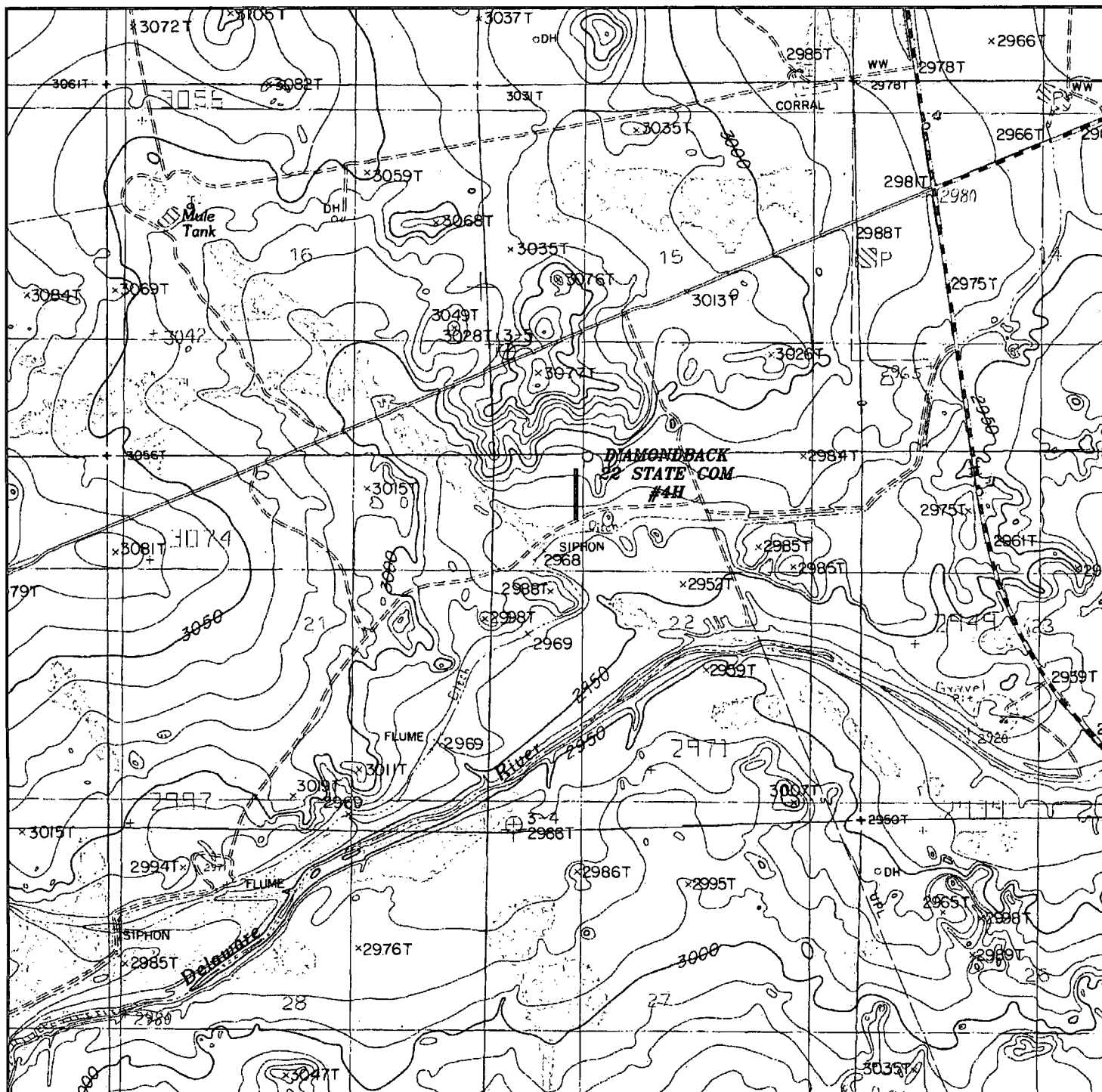
Date: 07-03-2012 Disk: JMS 26949

COG PRODUCTION LLC

REF: DIAMONDBACK 22 STATE COM #4H / WELL PAD TOPO

THE DIAMONDBACK 22 STATE COM #4H LOCATED 20'
FROM THE NORTH LINE AND 1393' FROM THE WEST LINE OF
SECTION 22, TOWNSHIP 26 SOUTH, RANGE 28 EAST,
N.M.P.M., EDDY COUNTY, NEW MEXICO.

Survey Date: 06-27-2012 Sheet 1 of 1 Sheets



DIAMONDBACK 22 STATE COM #4H
 Located 20' FNL and 1393' FWL
 Section 22, Township 26 South, Range 28 East,
 N.M.P.M., Eddy County, New Mexico.

basin
surveys
 focused on excellence
 in the oilfield

P.O. Box 1786
 1120 N. West County Rd.
 Hobbs, New Mexico 88241
 (575) 393-7316 - Office
 (575) 392-2206 - Fax
 basinsurveys.com

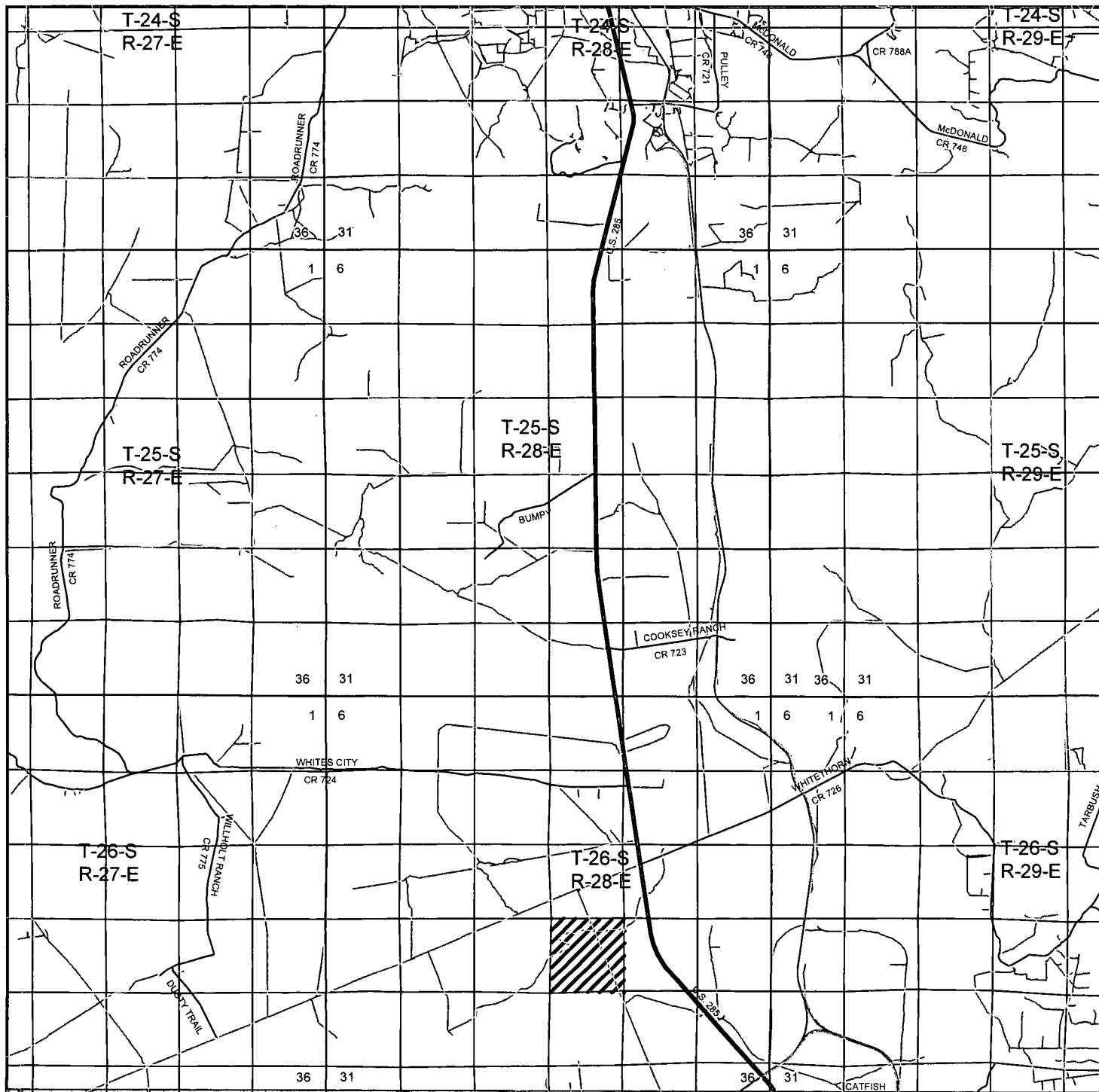
W.O. Number: JMS 26949

Survey Date: 06-27-2012

Scale: 1" = 2000'

Date: 07-03-2012

COG
PRODUCTION
LLC



DIAMONDBACK 22 STATE COM #4H
 Located 20' FNL and 1393' FWL
 Section 22, Township 26 South, Range 28 East,
 N.M.P.M., Eddy County, New Mexico.

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 (575) 392-2206 - Fax
 basinsurveys.com

W.O. Number: JMS 26949

Survey Date: 06-27-2012

Scale: 1" = 2 Miles

Date: 07-03-2012

COG
PRODUCTION
LLC



Company Name: COG Operating, LLC
 Site: Diamondback 22 State Com
 4H
 Project: Eddy County, NM (NAD83)
 Rig Name: Silver Oak 7



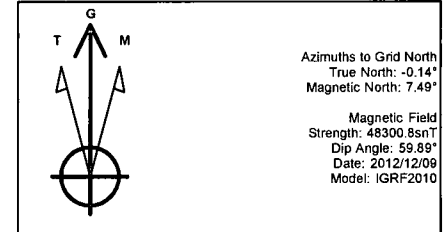
Created By: Gail Deering
 Date: 17:19, December 06 2012
 Plan: Design #5 - Option #2

ANNOTATIONS									
MD	TVD	Inc	Azi	+N/-S	+E/-W	VS	Departure	Annotation	
7408.07	7408.07	0.00	0.00	0.00	0.00	0.00	0.00	KOP->7408' TVD, build @ 10.00°/100'	
8302.57	7981.00	89.45	143.44	-455.80	338.01	493.62	567.46	Land @ 7981' TVD, turn @ 4.00°/100'	
9221.26	7990.13	89.45	180.19	-1313.68	619.83	1379.46	1486.10	Lateral Hold @ 89.45° INC, 180.19° AZM	
12854.87	8025.00	89.45	180.19	-4947.10	607.83	4984.30	5119.54	PBHL	

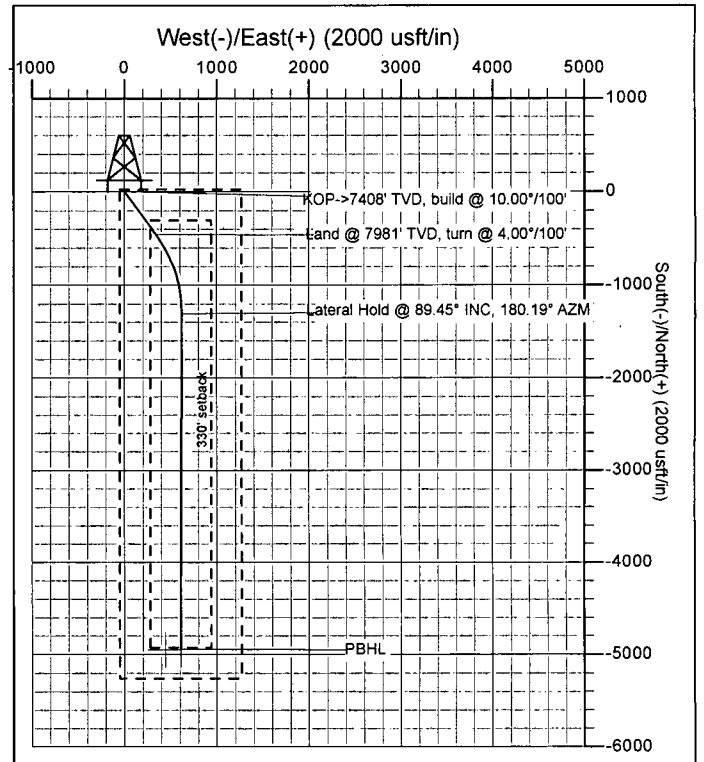
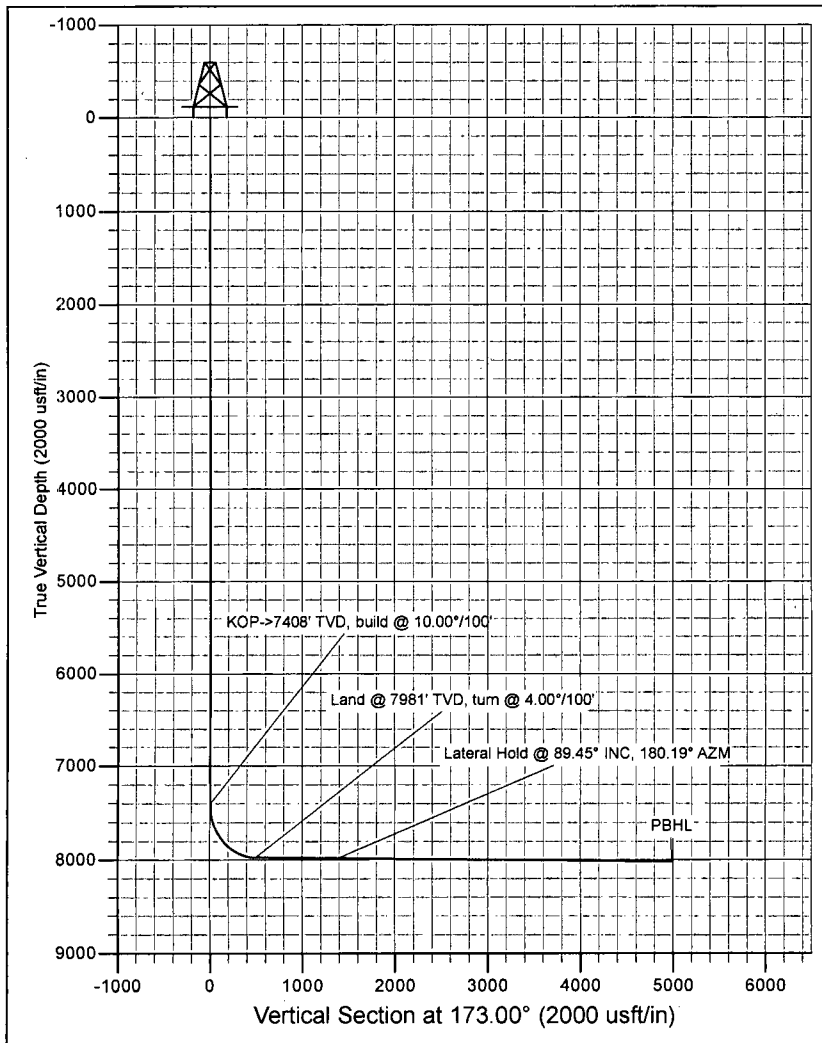
WELL DETAILS 4H			
Ground Level:	2993.00		
Northing	Easting		
376604.04	620192.20		

DESIGN TARGET DETAILS					
Name	TVD	+N/-S	+E/-W	Northing	Easting
PBHL	8025.00	-4947.10	607.83	371656.95	620800.03

CASING DETAILS
No casing data is available



**Magnetic Azimuth Apply:
 7.49° to convert to Grid North**



FORMATION TOP DETAILS
No formation data is available



COG Operating, LLC

Eddy County, NM (NAD83)

Diamondback 22 State Com 4H

4H

Wellbore #1

Plan: Design #5 - Option #2

Standard Planning Report

06 December, 2012





Childress Directional Drilling Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Site Diamondback 22 State Com 4H
Company:	COG Operating, LLC	TVD Reference:	Well @ 3011.00usft (Silver Oak 7)
Project:	Eddy County, NM (NAD83)	MD Reference:	Well @ 3011.00usft (Silver Oak 7)
Site:	Diamondback 22 State Com 4H	North Reference:	Grid
Well:	4H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #5 - Option #2		

Project	Eddy County, NM (NAD83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Well	4H				
Well Position	+N/-S	0.00 usft	Northing:	376,604.04 usft	Latitude: 32° 2' 6.393 N
	+E/-W	0.00 usft	Easting:	620,192.20 usft	Longitude: 104° 4' 43.885 W
Position Uncertainty		0.00 usft	Wellhead Elevation:		Ground Level: 2,993.00 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	12/09/12	7.62	59.89	48,301

Design	Design #5 - Option #2			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	173.00

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
7,408.07	0.00	0.00	7,408.07	0.00	0.00	0.00	0.00	0.00	0.00	
8,302.57	89.45	143.44	7,981.00	-455.80	338.01	10.00	10.00	0.00	143.44	
9,221.26	89.45	180.19	7,990.13	-1,313.67	619.83	4.00	0.00	4.00	90.18	
12,854.87	89.45	180.19	8,025.00	-4,947.10	607.83	0.00	0.00	0.00	0.00	PBHL v5 -- Diamondb



Childress Directional Drilling
Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Site Diamondback 22 State Com 4H
Company:	COG Operating, LLC	TVD Reference:	Well @ 3011.00usft (Silver Oak 7)
Project:	Eddy County, NM (NAD83)	MD Reference:	Well @ 3011.00usft (Silver Oak 7)
Site:	Diamondback 22 State Com 4H	North Reference:	Grid
Well:	4H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #5 - Option #2		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
7,408.07	0.00	0.00	7,408.07	0.00	0.00	0.00	0.00	0.00	0.00
KOP->7408' TVD, build @ 10.00°/100'									
7,500.00	9.19	143.44	7,499.61	-5.91	4.38	6.40	10.00	10.00	0.00
7,600.00	19.19	143.44	7,596.43	-25.58	18.97	27.70	10.00	10.00	0.00
7,700.00	29.19	143.44	7,687.53	-58.46	43.35	63.31	10.00	10.00	0.00
7,800.00	39.19	143.44	7,770.14	-103.54	76.78	112.13	10.00	10.00	0.00
7,900.00	49.19	143.44	7,841.75	-159.46	118.25	172.69	10.00	10.00	0.00
8,000.00	59.19	143.44	7,900.18	-224.52	166.50	243.15	10.00	10.00	0.00
8,100.00	69.19	143.44	7,943.66	-296.74	220.06	321.36	10.00	10.00	0.00
8,200.00	79.19	143.44	7,970.87	-373.93	277.30	404.95	10.00	10.00	0.00
8,300.00	89.19	143.44	7,980.97	-453.74	336.48	491.38	10.00	10.00	0.00
8,302.57	89.45	143.44	7,981.00	-455.80	338.01	493.62	10.00	10.00	0.00
Land @ 7981' TVD, turn @ 4.00°/100'									
8,400.00	89.44	147.34	7,981.95	-535.97	393.34	579.94	4.00	-0.01	4.00
8,500.00	89.43	151.34	7,982.93	-621.97	444.33	671.51	4.00	-0.01	4.00
8,600.00	89.42	155.34	7,983.93	-711.31	489.19	765.66	4.00	-0.01	4.00
8,700.00	89.42	159.34	7,984.94	-803.57	527.71	861.92	4.00	0.00	4.00
8,800.00	89.42	163.34	7,985.95	-898.28	559.70	959.83	4.00	0.00	4.00
8,900.00	89.42	167.34	7,986.96	-995.00	585.00	1,058.92	4.00	0.00	4.00
9,000.00	89.43	171.34	7,987.96	-1,093.25	603.50	1,158.69	4.00	0.01	4.00
9,100.00	89.44	175.34	7,988.96	-1,192.55	615.10	1,258.66	4.00	0.01	4.00
9,200.00	89.45	179.34	7,989.93	-1,292.42	619.74	1,358.35	4.00	0.01	4.00
9,221.26	89.45	180.19	7,990.13	-1,313.68	619.83	1,379.46	4.00	0.01	4.00
Lateral Hold @ 89.45° INC, 180.19° AZM									
9,300.00	89.45	180.19	7,990.89	-1,392.41	619.57	1,457.58	0.00	0.00	0.00
9,400.00	89.45	180.19	7,991.85	-1,492.41	619.24	1,556.79	0.00	0.00	0.00
9,500.00	89.45	180.19	7,992.81	-1,592.40	618.91	1,655.99	0.00	0.00	0.00
9,600.00	89.45	180.19	7,993.77	-1,692.40	618.58	1,755.20	0.00	0.00	0.00
9,700.00	89.45	180.19	7,994.73	-1,792.39	618.25	1,854.41	0.00	0.00	0.00
9,800.00	89.45	180.19	7,995.69	-1,892.39	617.92	1,953.62	0.00	0.00	0.00
9,900.00	89.45	180.19	7,996.65	-1,992.38	617.59	2,052.83	0.00	0.00	0.00
10,000.00	89.45	180.19	7,997.61	-2,092.38	617.26	2,152.03	0.00	0.00	0.00
10,100.00	89.45	180.19	7,998.57	-2,192.37	616.93	2,251.24	0.00	0.00	0.00
10,200.00	89.45	180.19	7,999.53	-2,292.37	616.60	2,350.45	0.00	0.00	0.00
10,300.00	89.45	180.19	8,000.48	-2,392.36	616.26	2,449.66	0.00	0.00	0.00
10,400.00	89.45	180.19	8,001.44	-2,492.36	615.93	2,548.87	0.00	0.00	0.00
10,500.00	89.45	180.19	8,002.40	-2,592.35	615.60	2,648.08	0.00	0.00	0.00
10,600.00	89.45	180.19	8,003.36	-2,692.35	615.27	2,747.28	0.00	0.00	0.00
10,700.00	89.45	180.19	8,004.32	-2,792.34	614.94	2,846.49	0.00	0.00	0.00
10,800.00	89.45	180.19	8,005.28	-2,892.34	614.61	2,945.70	0.00	0.00	0.00
10,900.00	89.45	180.19	8,006.24	-2,992.33	614.28	3,044.91	0.00	0.00	0.00
11,000.00	89.45	180.19	8,007.20	-3,092.33	613.95	3,144.12	0.00	0.00	0.00
11,100.00	89.45	180.19	8,008.16	-3,192.32	613.62	3,243.33	0.00	0.00	0.00
11,200.00	89.45	180.19	8,009.12	-3,292.32	613.29	3,342.53	0.00	0.00	0.00
11,300.00	89.45	180.19	8,010.08	-3,392.31	612.96	3,441.74	0.00	0.00	0.00
11,400.00	89.45	180.19	8,011.04	-3,492.31	612.63	3,540.95	0.00	0.00	0.00
11,500.00	89.45	180.19	8,012.00	-3,592.30	612.30	3,640.16	0.00	0.00	0.00
11,600.00	89.45	180.19	8,012.96	-3,692.30	611.97	3,739.37	0.00	0.00	0.00
11,700.00	89.45	180.19	8,013.92	-3,792.29	611.64	3,838.58	0.00	0.00	0.00
11,800.00	89.45	180.19	8,014.88	-3,892.29	611.31	3,937.78	0.00	0.00	0.00
11,900.00	89.45	180.19	8,015.84	-3,992.28	610.98	4,036.99	0.00	0.00	0.00
12,000.00	89.45	180.19	8,016.80	-4,092.27	610.65	4,136.20	0.00	0.00	0.00
12,100.00	89.45	180.19	8,017.76	-4,192.27	610.32	4,235.41	0.00	0.00	0.00



Childress Directional Drilling Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Site Diamondback 22 State Com 4H
Company:	COG Operating, LLC	TVD Reference:	Well @ 3011.00usft (Silver Oak 7)
Project:	Eddy County, NM (NAD83)	MD Reference:	Well @ 3011.00usft (Silver Oak 7)
Site:	Diamondback 22 State Com 4H	North Reference:	Grid
Well:	4H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #5 - Option #2		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
12,200.00	89.45	180.19	8,018.72	-4,292.26	609.99	4,334.62	0.00	0.00	0.00
12,300.00	89.45	180.19	8,019.68	-4,392.26	609.66	4,433.82	0.00	0.00	0.00
12,400.00	89.45	180.19	8,020.64	-4,492.25	609.33	4,533.03	0.00	0.00	0.00
12,500.00	89.45	180.19	8,021.60	-4,592.25	609.00	4,632.24	0.00	0.00	0.00
12,600.00	89.45	180.19	8,022.55	-4,692.24	608.67	4,731.45	0.00	0.00	0.00
12,700.00	89.45	180.19	8,023.51	-4,792.24	608.34	4,830.66	0.00	0.00	0.00
12,800.00	89.45	180.19	8,024.47	-4,892.23	608.01	4,929.87	0.00	0.00	0.00
12,854.87	89.45	180.19	8,025.00	-4,947.10	607.83	4,984.30	0.00	0.00	0.00
PBHL									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
PBHL v5 -- Diamondbac	0.00	0.00	8,025.00	-4,947.10	607.83	371,656.95	620,800.03	32° 1' 17.421 N	104° 4' 36.960 W
- plan hits target center									
- Point									

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
7,408.07	7,408.07	0.00	0.00	KOP->7408' TVD, build @ 10.00°/100'	
8,302.57	7,981.00	-455.80	338.01	Land @ 7981' TVD, turn @ 4.00°/100'	
9,221.26	7,990.13	-1,313.68	619.83	Lateral Hold @ 89.45° INC, 180.19° AZM	
12,854.87	8,025.00	-4,947.10	607.83	PBHL	